

Service Manual

ORDER NO.
CRT2825

MULTI-CD CONTROL DSP HIGH POWER CD CASSETTE PLAYER WITH FM/AM TUNER

FH-P4100

XN/UC,XN/ES

MULTI-CD CONTROL DSP HIGH POWER CD CASSETTE PLAYER WITH RDS TUNER

FH-P4100R

XN/EW



- This service manual should be used together with the manual(s) listed below.

For the parts numbers, adjustments, etc. which are not shown in this manual, refer to the following manual(s).

Model No.	Order No.	Mech. Module	Remarks
FH-P4000/X1N/UC	CRT2674		
CX-977	CRT2624	S9	CD Mech. Module:Circuit Description, Mech.Description, Disassembly
CX-1011	CRT2406	3L	Cassette Mech. Module:Mech.Description, Disassembly, Adjustment

EXPLODED VIEWS AND PARTS LIST

PACKING (Page 4)

● PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.	
			FH-P4000/X1N/UC	FH-P4100/XN/UC
	9	Carton	CHG4348	CHG4698
	10	Contain Box	CHL4348	CHL4698
	14-3	Owner's Manual	CRD3403	CRD3580
	14-4	Installation Manual	CRD3404	CRD3581

● PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.	
			FH-P4000R/X1N/EW	FH-P4100R/XN/EW
	9	Carton	CHG4347	CHG4697
	10	Contain Box	CHL4347	CHL4697
	14-3	Owner's Manual	CRD3397	CRD3576
	14-4	Installation Manual	CRD3398	CRD3577
	14-6	Owner's Manual	CRD3399	CRD3578
	14-7	Installation Manual	CRD3400	CRD3579

● PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.	
			FH-P4000/X1N/ES	FH-P4100/XN/ES
	9	Carton	CHG4346	CHG4699
	10	Contain Box	CHL4346	CHL4699
	14-3	Owner's Manual	CRD3401	CRD3582
	14-4	Installation Manual	CRD3402	CRD3583

EXTERIOR (Page 6-8)**● EXTERIOR SECTION PARTS LIST**

Mark	No.	Description	Part No.	
			FH-P4000/X1N/UC	FH-P4100/XN/UC
	16	Audio Amp Unit	CWM7526	CWM8203
	42	Panel Unit	CXB7289	CXB8347
	43	Button	CAC6904	CAC7677
	44	Door	CAT2223	CAT2336
	76	Remote Control Unit	CXB6796	CXB8744
	77	Cover	CNS6439	CNS7068
	78	CD Mechanism Module	CXK5500(S9)	CXK5501(S9ANA)

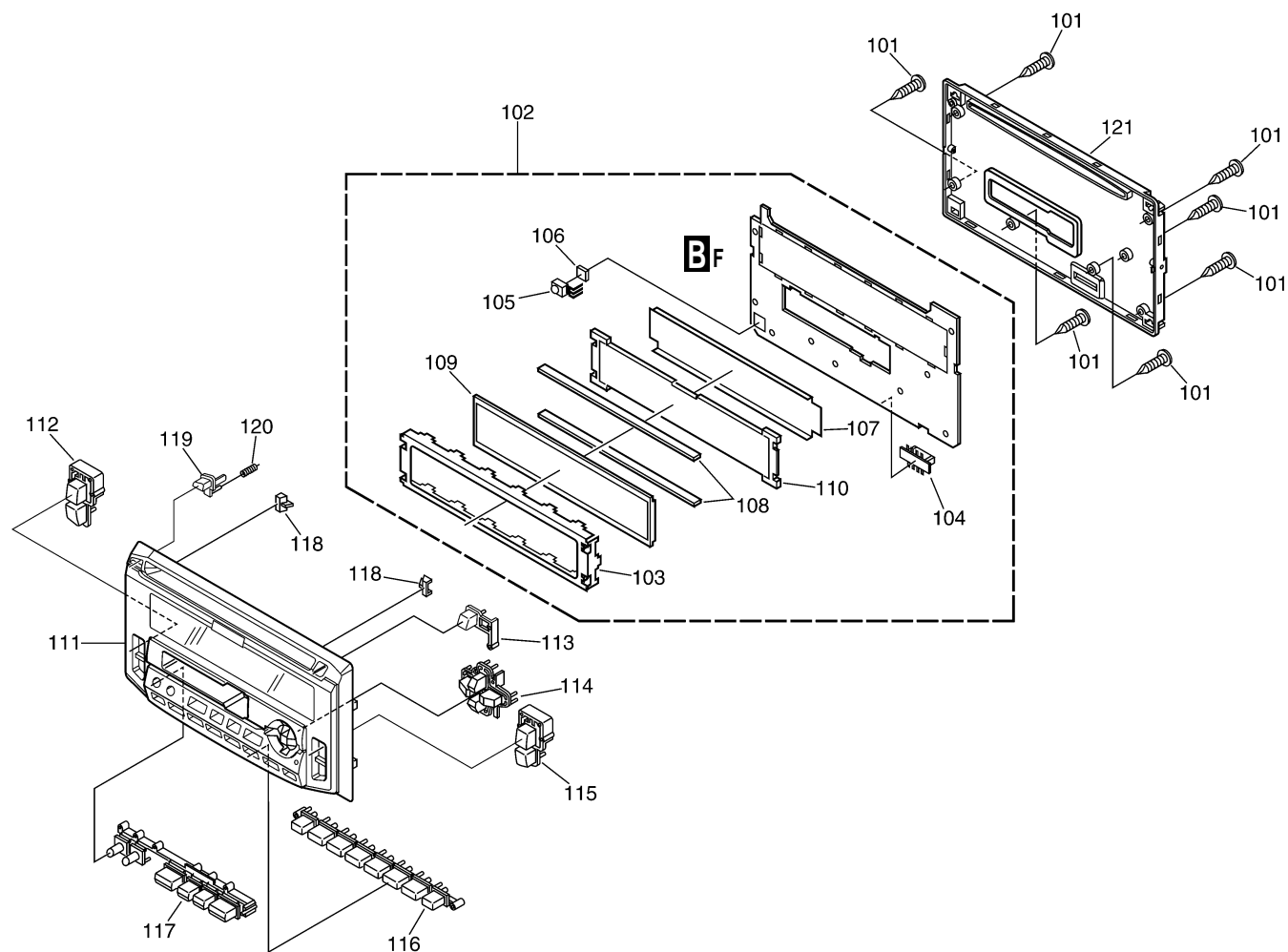
● EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.	
			FH-P4000R/X1N/EW	FH-P4100R/XN/EW
	16	Audio Amp Unit	CWM7523	CWM8202
	33	Chassis Unit	CXB6786	CXB8722
	42	Panel Unit	CXB7289	CXB8347
	43	Button	CAC6904	CAC7677
	44	Door	CAT2223	CAT2336
	78	CD Mechanism Module	CXK5500(S9)	CXK5501(S9ANA)

● EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.	
			FH-P4000/X1N/ES	FH-P4100/XN/ES
	14	Audio Amp Unit	CWM7529	CWM8204
	58	CD Mechanism Module	CXK5500(S9)	CXK5501(S9ANA)
	65	Remote Control Unit	CXB6796	CXB8744
	66	Cover	CNS6439	CNS7068

DETACH GRILLE ASSY(UC,EW model)



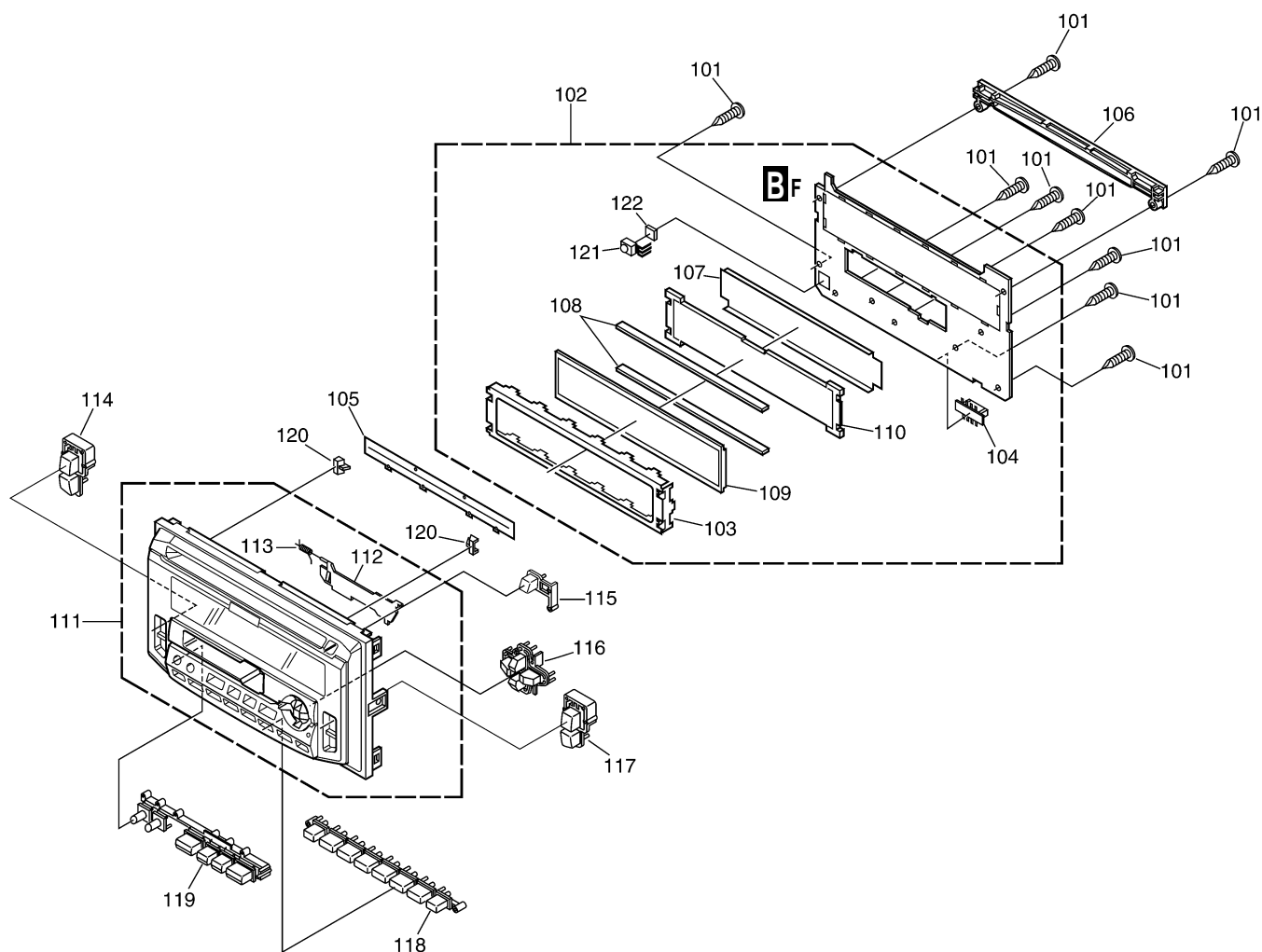
NOTE:

- Parts marked by “*” are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ▽ mark on the product are used for disassembly.

● DETACH GRILLE ASSY SECTION PARTS LIST
(UC , EW model)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
101	Screw	BPZ20P080FZK	113	Button(CD EJ)	CAC7433
102	Keyboard Unit(UC)	CWM8417	114	Button(SEL)	CAC7441
	Keyboard Unit(EW)	CWM8416	115	Button(VOLUME)	CAC7434
103	Holder	CNC9168	116	Button(1-6)(UC)	CAC7443
104	Connector(CN1000)	CKS3580		Button(1-6)(EW)	CAC7440
105	IC(IC1401)	TS04840SB1	117	Button(DISP,AUDIO)	CAC7442
106	Spacer	CNM7603			
107	Sheet	CNM7084	118	Lighting Conductor	CNV7021
108	Connector	CNV6586	119	Button(DETACH)	CAC7439
109	LCD	CAW1664	120	Spring	CBH2210
110	Lighting Conductor	CNV6582	121	Cover	CNS6926
111	Grille Unit(UC)	CXB9548			
	Grille Unit(EW)	CXB9547			
112	Button(TAPE EJ)	CAC7438			

DETACH GRILLE ASSY(ES model)

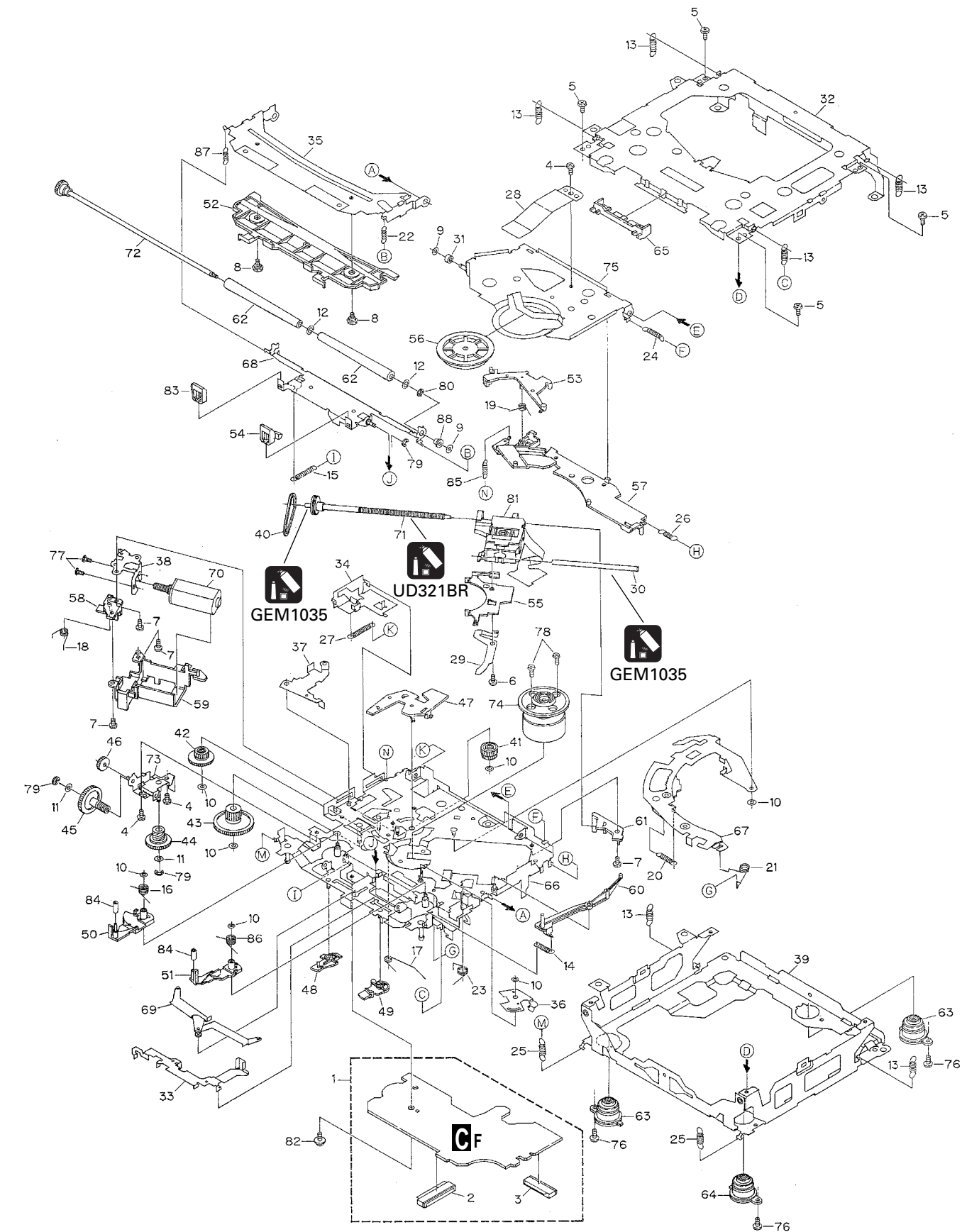


● DETACH GRILLE ASSY SECTION PARTS LIST
(ES model)

Mark No.	Description	Part No.
101	Screw	BPZ20P080FZK
102	Keyboard Unit	CWM8418
103	Holder	CNC9168
104	Connector(CN1000)	CKS3580
105	Cover	CNS6926
106	Guide	CNV6580
107	Sheet	CNM7084
108	Connector	CNV6586
109	LCD	CAW1664
110	Lighting Conductor	CNV6582

Mark No.	Description	Part No.
111	Grille Unit	CXB9549
112	Door	CAT2336
113	Spring	CBH1838
114	Button(TAPE EJ)	CAC7438
115	Button(CD EJ)	CAC7433
116	Button(SEL)	CAC7435
117	Button(VOLUME)	CAC7434
118	Button(1-6)	CAC7443
119	Button(DISP,AUDIO)	CAC7442
120	Lighting Conductor	CNV7021
121	IC(IC1401)	TS04840SB1
122	Spacer	CNM7603

CD MECHANISM MODULE



● CD MECHANISM MODULE SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Control Unit	CWX2481	46	Gear	CNV6320
2	Connector(CN701)	CKS1959	47	Arm	CNV6322
3	Connector(CN101)	CKS3486	48	Arm	CNV6323
4	Screw	BMZ20P025FMC	49	Arm	CNV6324
5	Screw	BSZ20P040FMC	50	Arm	CNV6888
6	Screw(M2x4)	CBA1362	51	Arm	CNV6889
7	Screw(M2x3)	CBA1527	52	Guide	CNV6327
8	Screw	CBA1545	53	Arm	CNV6924
9	Washer	CBF1037	54	Guide	CNV6921
10	Washer	CBF1038	55	Rack	CNV6923
11	Washer	CBF1039	56	Clamper	CNV6331
12	Washer	CBF1060	57	Arm	CNV6332
13	Spring	CBH2378	58	Guide	CNV6333
14	Spring	CBH2379	59	Cover	CNV6334
15	Spring	CBH2514	60	Arm	CNV6335
16	Spring	CBH2533	61	Guide	CNV6336
17	Spring	CBH2382	62	Roller	CNV6338
18	Spring	CBH2383	63	Damper	CNV6339
19	Spring	CBH2384	64	Damper	CNV6340
20	Spring	CBH2527	65	Guide	CNV6925
21	Spring	CBH2386	66	Chassis Unit	CXB7980
22	Spring	CBH2537	* 67	Arm Unit	CXB7983
23	Spring	CBH2390	68	Arm Unit	CXB7984
24	Spring	CBH2391	69	Arm Unit	CXB7985
25	Spring	CBH2523	70	Motor Unit(M2)	CXB5903
26	Spring	CBH2426	71	Screw Unit	CXB5904
27	Spring	CBH2444	72	Gear Unit	CXB8076
28	Spring	CBL1561	73	Bracket Unit	CXB7982
29	Spring	CBL1553	74	Motor Unit(M1)	CXB6007
30	Shaft	CLA3845	75	Arm Unit	CXB8504
31	Roller	CLA3910	76	Screw(M2x5)	EBA1028
32	Frame	CNC9654	77	Screw	JFZ20P020FMC
33	Lever	CNC9664	78	Screw	JGZ17P020FZK
34	Lever	CNC8949	79	Washer	YE15FUC
35	Arm	CNC9661	80	Washer	YE20FUC
36	Arm	CNC9016	81	Pickup Unit(Service)(P9)	CXX1480
37	Arm	CNC9017	82	Screw	IMS26P030FMC
38	Bracket	CNC9123	83	Guide	CNV6922
39	Frame	CNC9656	84	Roller	CNV6887
40	Belt	CNT1086	85	Spring	CBH2509
41	Gear	CNV6886	86	Spring	CBH2512
42	Gear	CNV6316	87	Spring	CBH2536
43	Gear	CNV6317	88	Collar	CNV6906
44	Gear	CNV6318			
45	Gear	CNV6319			

SCHEMATIC DIAGRAM
KEYBOARD UNIT

* REMARK 1 (ILLUMINATION)

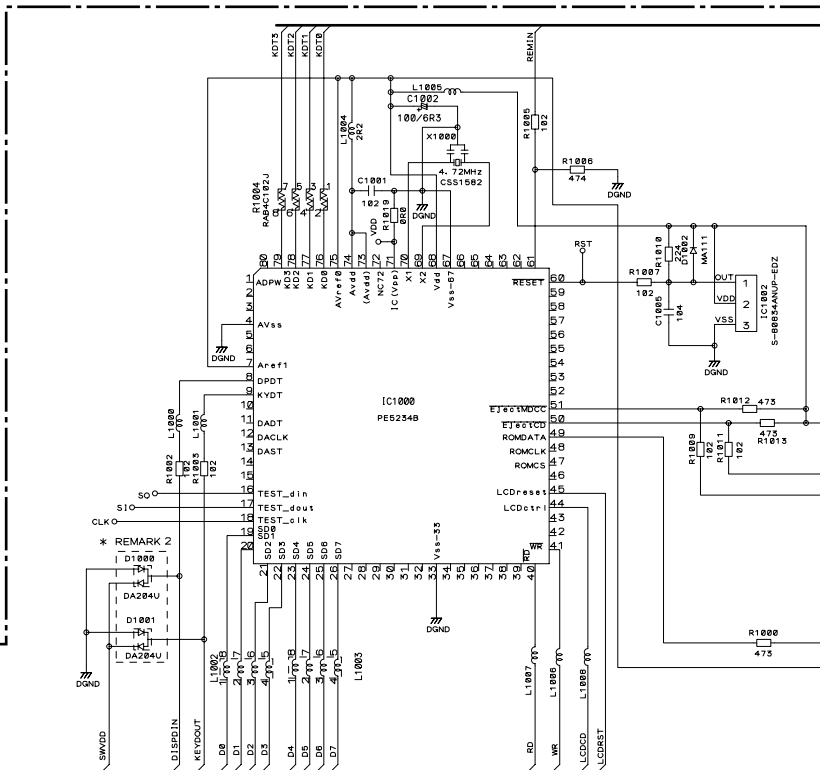
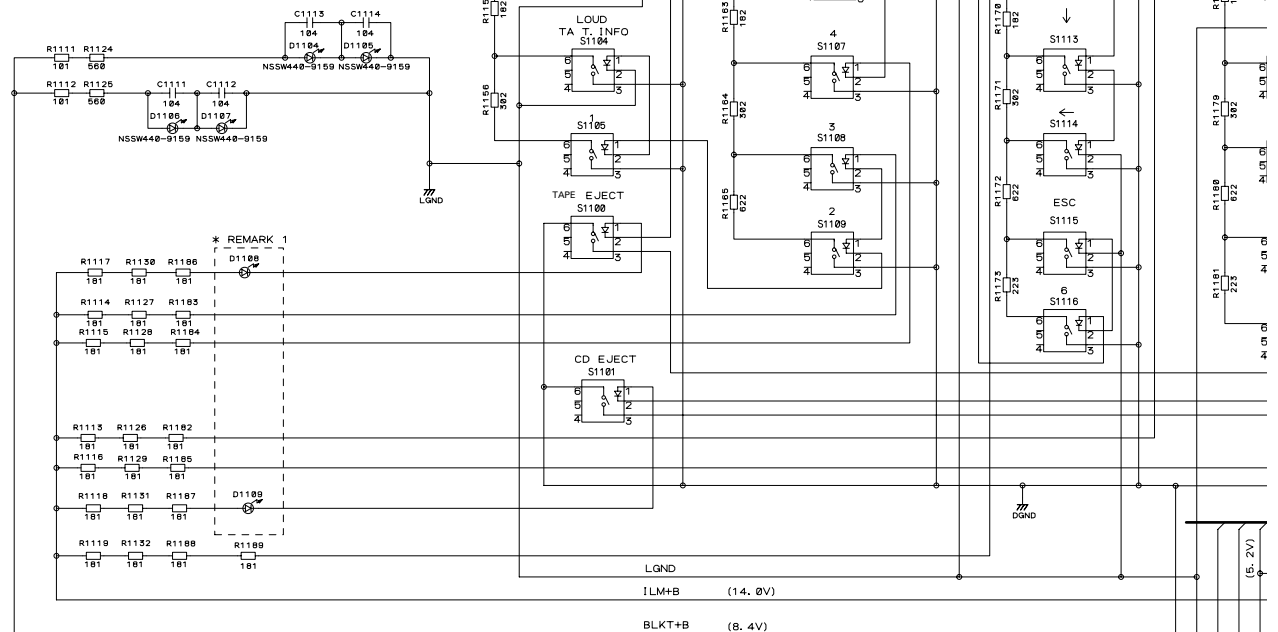
SERIES	D1108 D1109	D1113 D1114	S1100 - S1122
UC ES	CL195FGCD (GREEN)	CL195FGCD (GREEN)	CSG1127
EW	CL195SRC (RED)	CL195SRC (RED)	CSG1133

* REMARK 2 (DETACH MODEL)

SERIES	D1000 D1001
UC EW	○
ES	-

* REMARK 3 (RESET)

SERIES	S1000 R1014	R1015
UC EW	-	○
ES	○	-



CN1000

CN80

Bf KEYBOARD UNIT

NOTE :

 Symbol indicates a resistor.

No differentiation is made between chip resistors and discrete resistors.

—|— Symbol indicates a capacitor.

No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor

Decimal points for resistor and capacitor fixed values are expressed as :

 $2,2 \rightarrow 2R2$

0.022 → R022

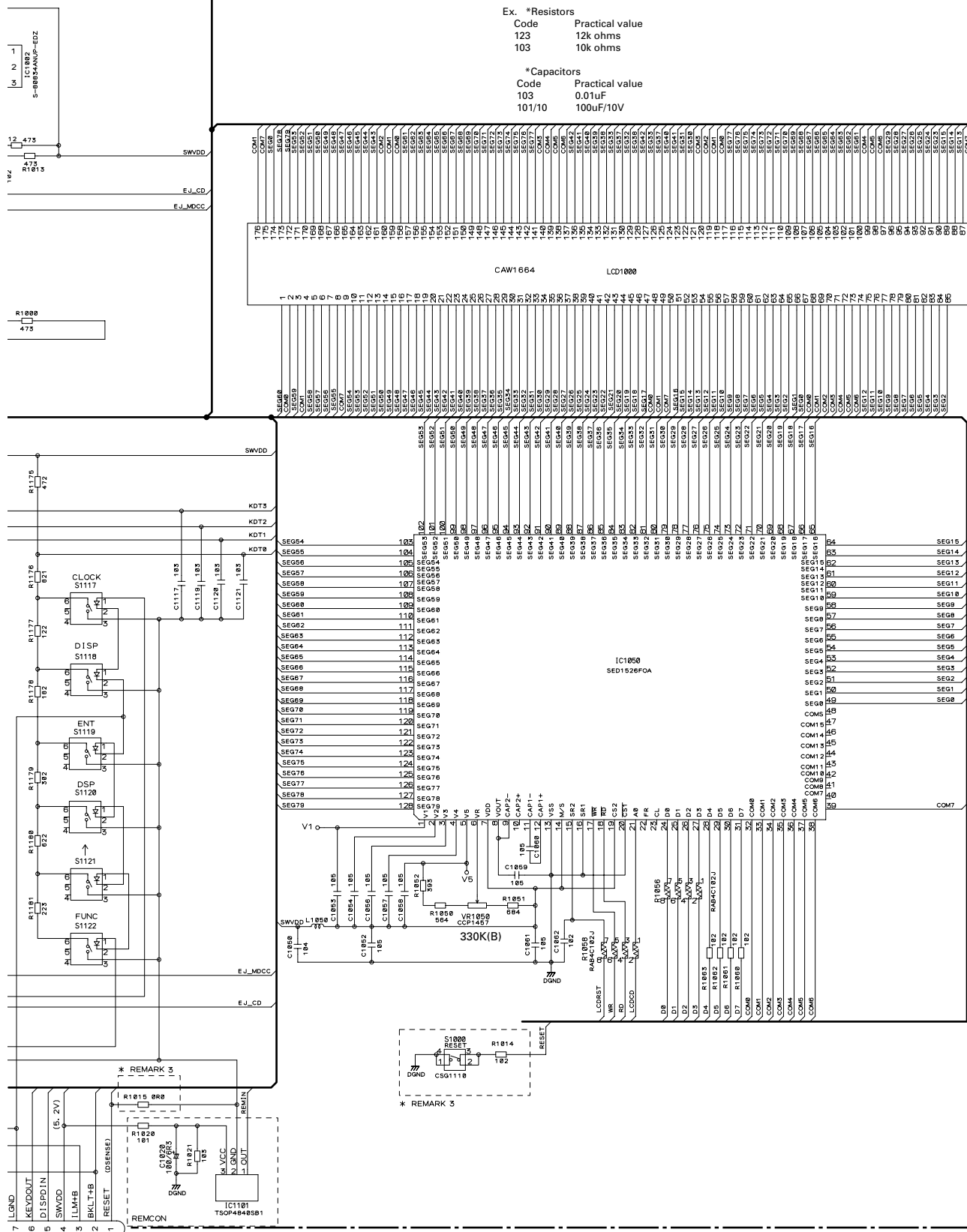
For resistors and capacitors in the circuit diagrams, their resistance values or capacitance values are expressed in codes:

Ex. *Resistors

Code	Practical value
123	12k ohms
103	10k ohms

*Capacitors

Code	Practical value
103	0.01uF
101/10	100uF/10V



A CN801

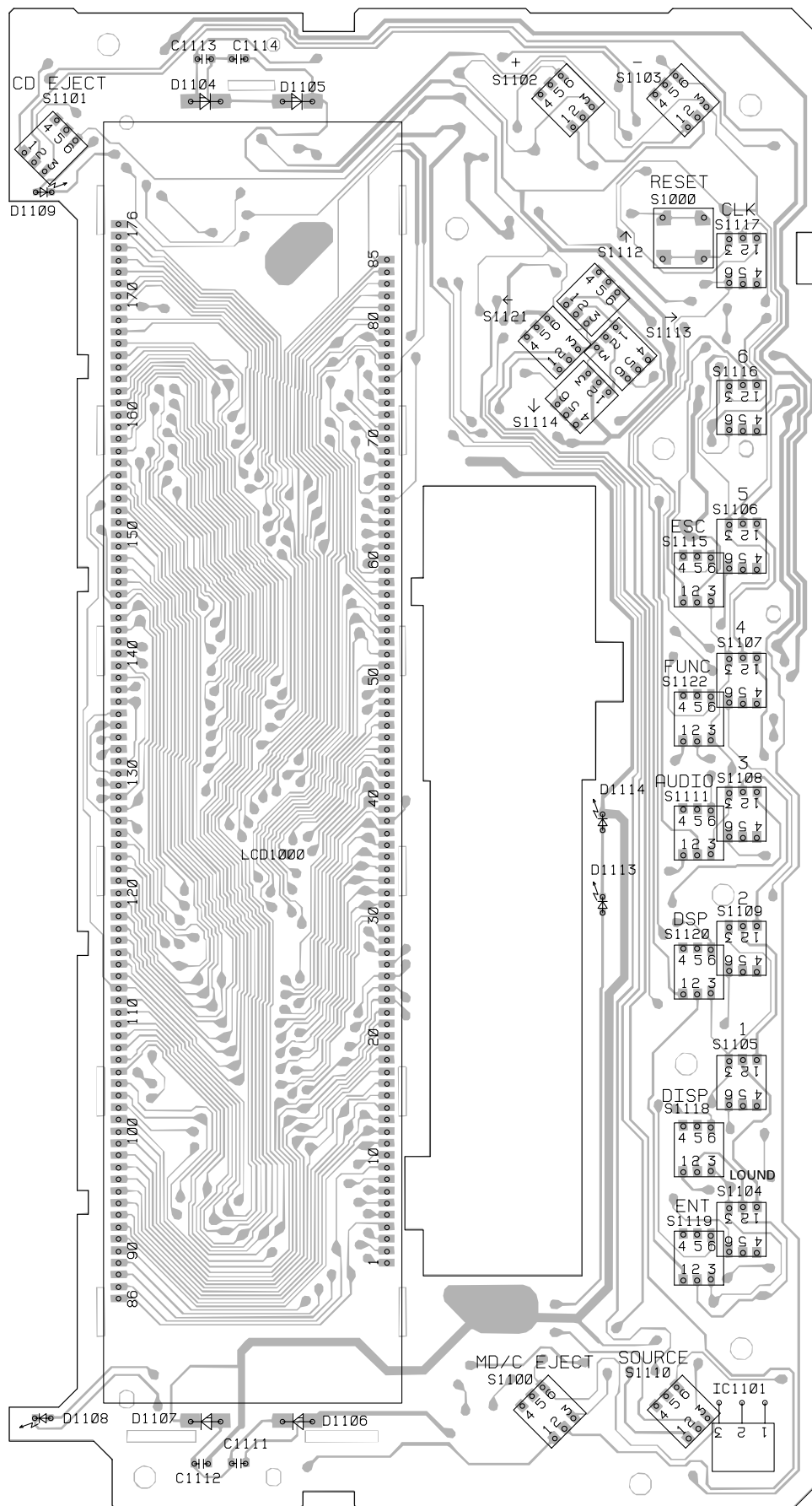
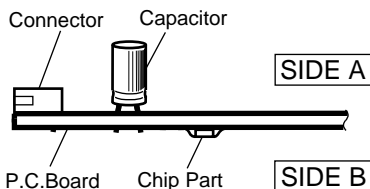
BF

PCB CONNECTION DIAGRAM

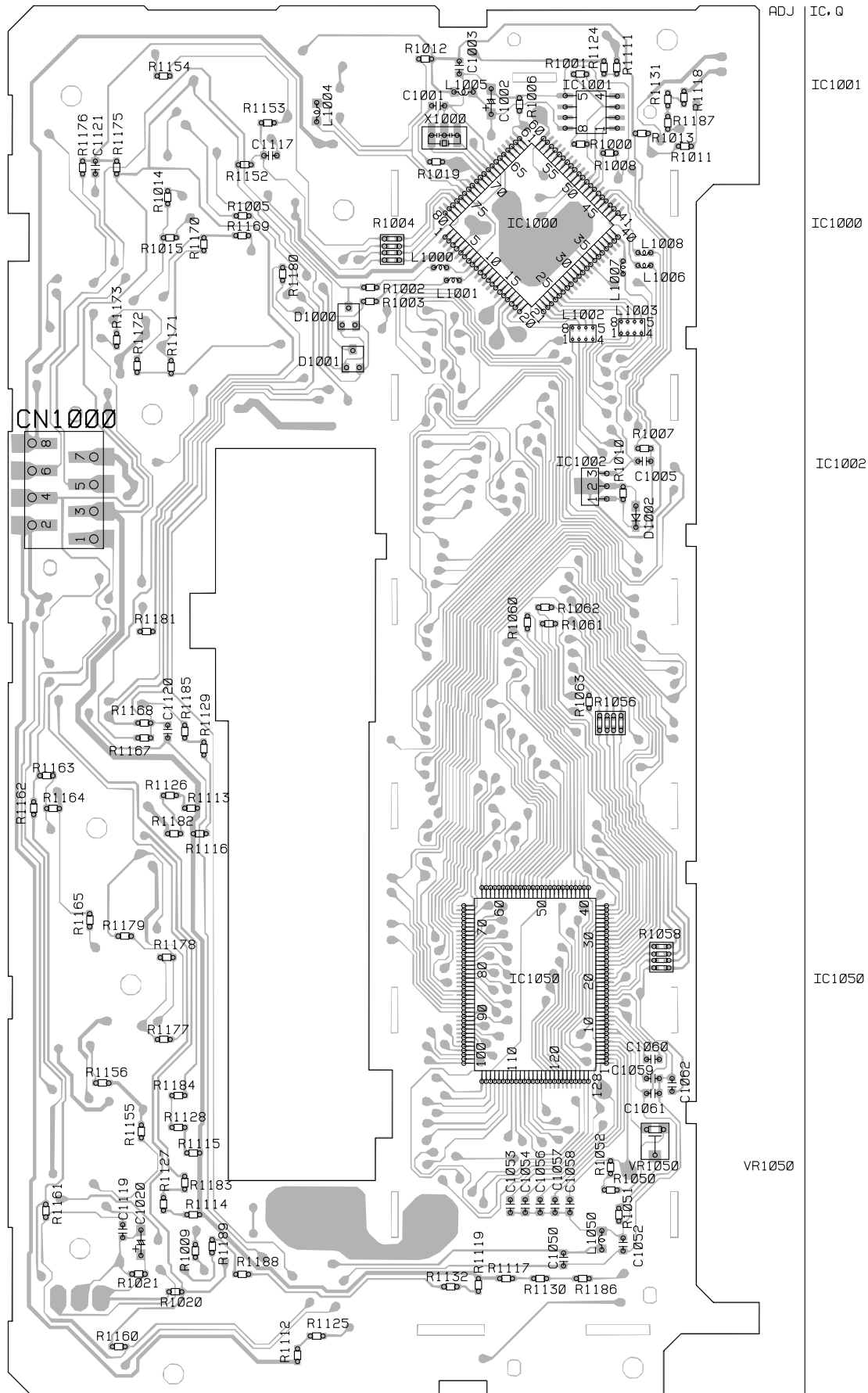
KEYBOARD UNIT **B**F KEYBOARD UNIT

NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams



BF KEYBOARD UNIT



A

B

C

D

ELECTRICAL PARTS LIST(Page 50)

Audio Amp Unit

Symbol and Description	Part No.	
	FH-P4000/X1N/UC FH-P4000/X1N/ES	FH-P4100/XN/UC FH-P4100/XN/ES
IC101 IC	CA0008AM	HA12187FP
IC301 IC	PAL006A	PAL007A
IC601 IC	PE5211A	PE5323A
IC602 IC	S-80735ANDZI	S-80835ANUP-EDZ
D852 Diode	HZU8R2(B1)	UDZS8R2(B)
TH601 Thermistor	CCX1037	Not used
R642	RN1/16SE2202D	RS1/16S473J
C131	CEJA220M16	CEJQ220M16
C133,216,217,821	CEJA100M16	CEJQ100M16
C203	CEJA470M10	CEJQ470M10
C220,221	CEJA1R0M50	CEJQ1R0M50
C222,223,224,225	CEJA4R7M35	CEJQ4R7M35
C267,268,269,272,273,278	CEJA220M6R3	CEJQ220M6R3
C326	CEJA330M10	CEHAR330M10
C327 4700μF/16V	CCH1302	CCH1367
C329	CEJA100M16	CEHAR100M16
C406	CEJA220M10	CEJQ220M10
C411	CEJA101M10	CEJQ101M10

Audio Amp Unit

Symbol and Description	Part No.	
	FH-P4000R/X1N/EW	FH-P4100R/XN/EW
IC101 IC	CA0008AM	HA12187FP
IC301 IC	PAL006A	PAL007A
IC602 IC	S-80735ANDZI	S-80835ANUP-EDZ
D852 Diode	HZU8R2(B1)	UDZS8R2(B)
TH601 Thermistor	CCX1037	Not used
R642	RN1/16SE2202D	RS1/16S473J
C131	CEJA220M16	CEJQ220M16
C133,216,217,821	CEJA100M16	CEJQ100M16
C203	CEJA470M10	CEJQ470M10
C220,221	CEJA1R0M50	CEJQ1R0M50
C222,223,224,225	CEJA4R7M35	CEJQ4R7M35
C267,268,269,272,273,278	CEJA220M6R3	CEJQ220M6R3
C326	CEJA330M10	CEHAR330M10
C327 4700μF/16V	CCH1302	CCH1367
C329	CEJA100M16	CEHAR100M16
C406,501,505	CEJA220M10	CEJQ220M10
C411	CEJA101M10	CEJQ101M10

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
B Unit Number : CWM8417(UC model)		S 1110 Push Switch(UC model)	CSG1127
F Unit Name : CWM8416(EW model)		S 1110 Push Switch(EW model)	CSG1133
Unit Name : Keyboard Unit		S 1111 Push Switch(UC model)	CSG1127
		S 1111 Push Switch(EW model)	CSG1133
		S 1112 Push Switch(UC model)	CSG1127
MISCELLANEOUS			
IC 1000 IC	PE5234B	S 1112 Push Switch(EW model)	CSG1133
IC 1002 IC	S-80834ANUP-EDY	S 1113 Push Switch(UC model)	CSG1127
IC 1050 IC	SED1526F0A	S 1113 Push Switch(EW model)	CSG1133
IC 1101 IC	TSOP4840SB1	S 1114 Push Switch(UC model)	CSG1127
D 1000 Diode Network	DA204U	S 1114 Push Switch(EW model)	CSG1133
D 1001 Diode Network	DA204U		
D 1002 Diode	MA111	S 1115 Push Switch(UC model)	CSG1127
D 1104 LED	NSSW440-9159	S 1115 Push Switch(EW model)	CSG1133
D 1105 LED	NSSW440-9159	S 1116 Push Switch(UC model)	CSG1127
D 1106 LED	NSSW440-9159	S 1116 Push Switch(EW model)	CSG1133
		S 1117 Push Switch(UC model)	CSG1127
D 1107 LED	NSSW440-9159	S 1117 Push Switch(EW model)	CSG1133
D 1108 LED(UC model)	CL195FGCD	S 1118 Push Switch(UC model)	CSG1127
D 1108 LED(EW model)	CL195SRCD	S 1118 Push Switch(EW model)	CSG1133
D 1109 LED(UC model)	CL195FGCD	S 1119 Push Switch(UC model)	CSG1127
D 1109 LED(EW model)	CL195SRCD	S 1119 Push Switch(EW model)	CSG1133
D 1113 LED(UC model)	CL195FGCD		
D 1113 LED(EW model)	CL195SRCD	S 1120 Push Switch(UC model)	CSG1127
D 1114 LED(UC model)	CL195FGCD	S 1120 Push Switch(EW model)	CSG1133
D 1114 LED(EW model)	CL195SRCD	S 1121 Push Switch(UC model)	CSG1127
L 1000 Inductor	CTF1379	S 1121 Push Switch(EW model)	CSG1133
		S 1122 Push Switch(UC model)	CSG1127
L 1001 Inductor	CTF1379		
L 1002 Inductor-Array	CTF1421	S 1122 Push Switch(EW model)	CSG1133
L 1003 Inductor-Array	CTF1421	VR 1050 Semi-fixed 330kΩ(B)	CCP1457
L 1004 Inductor	LCTB2R2K2125		
L 1005 Inductor	LCTB2R2K2125		
L 1006 Inductor	CTF1379		
L 1007 Inductor	CTF1379		
L 1008 Inductor	CTF1379		
L 1050 Inductor	LCYC150K2125		
X 1000 Ceramic Resonator 4.72MHz	CSS1582		
S 1100 Push Switch(UC model)	CSG1127		
S 1100 Push Switch(EW model)	CSG1133		
S 1101 Push Switch(UC model)	CSG1127		
S 1101 Push Switch(EW model)	CSG1133		
S 1102 Push Switch(UC model)	CSG1127		
S 1102 Push Switch(EW model)	CSG1133		
S 1103 Push Switch(UC model)	CSG1127		
S 1103 Push Switch(EW model)	CSG1133		
S 1104 Push Switch(UC model)	CSG1127		
S 1104 Push Switch(EW model)	CSG1133		
S 1105 Push Switch(UC model)	CSG1127		
S 1105 Push Switch(EW model)	CSG1133		
S 1106 Push Switch(UC model)	CSG1127		
S 1106 Push Switch(EW model)	CSG1133		
S 1107 Push Switch(UC model)	CSG1127		
S 1107 Push Switch(EW model)	CSG1133		
S 1108 Push Switch(UC model)	CSG1127		
S 1108 Push Switch(EW model)	CSG1133		
S 1109 Push Switch(UC model)	CSG1127		
S 1109 Push Switch(EW model)	CSG1133		

RESISTORS

R 1000	RS1/16S473J
R 1002	RS1/16S102J
R 1003	RS1/16S102J
R 1004	RAB4C102J
R 1005	RS1/16S102J
R 1006	RS1/16S474J
R 1007	RS1/16S102J
R 1008	RS1/16S103J
R 1009	RS1/16S102J
R 1010	RS1/16S224J
R 1011	RS1/16S102J
R 1012	RS1/16S473J
R 1013	RS1/16S473J
R 1015	RS1/16S0R0J
R 1019	RS1/16S0R0J
R 1020	RS1/16S101J
R 1021	RS1/16S103J
R 1050	RS1/16S564J
R 1051	RS1/16S684J
R 1052	RS1/16S393J
R 1056	RAB4C102J
R 1058	RAB4C102J
R 1060	RS1/16S102J
R 1061	RS1/16S102J
R 1062	RS1/16S102J

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
R 1063	RS1/16S102J	C 1058	CKSRYB105K6R3
R 1111	RS1/16S101J	C 1059	CKSRYB105K6R3
R 1112	RS1/16S101J	C 1060	CKSRYB105K6R3
R 1113	RS1/16S181J	C 1061	CKSRYB105K6R3
R 1114	RS1/16S181J	C 1062	CKSRYB102K50
R 1115	RS1/16S181J	C 1111	CKSRYB104K16
R 1116	RS1/16S181J	C 1112	CKSRYB104K16
R 1117	RS1/16S181J	C 1113	CKSRYB104K16
R 1118	RS1/16S181J	C 1114	CKSRYB104K16
R 1119	RS1/16S181J	C 1117	CKSRYB103K50
R 1124	RS1/16S560J	C 1119	CKSRYB103K50
R 1125	RS1/16S560J	C 1120	CKSRYB103K50
R 1126	RS1/16S181J	C 1121	CKSRYB103K50
R 1127	RS1/16S181J		
R 1128	RS1/16S181J		
R 1129	RS1/16S181J		
R 1130	RS1/16S181J		
R 1131	RS1/16S181J		
R 1132	RS1/16S181J		
R 1152	RS1/16S472J		
R 1153	RS1/16S821J		
R 1154	RS1/16S122J		
R 1155	RS1/16S182J		
R 1156	RS1/16S302J		
R 1160	RS1/16S472J		
R 1161	RS1/16S821J		
R 1162	RS1/16S122J		
R 1163	RS1/16S182J		
R 1164	RS1/16S302J		
R 1165	RS1/16S622J		
R 1167	RS1/16S472J		
R 1168	RS1/16S821J		
R 1169	RS1/16S122J		
R 1170	RS1/16S182J		
R 1171	RS1/16S302J		
R 1172	RS1/16S622J		
R 1173	RS1/16S223J		
R 1175	RS1/16S472J		
R 1176	RS1/16S821J		
R 1177	RS1/16S122J		
R 1178	RS1/16S182J		
R 1179	RS1/16S302J		
R 1180	RS1/16S622J		
R 1181	RS1/16S223J		
R 1182	RS1/16S181J		
R 1183	RS1/16S181J		
R 1184	RS1/16S181J		
R 1185	RS1/16S181J		
R 1186	RS1/16S181J		
R 1187	RS1/16S181J		
R 1188	RS1/16S181J		
R 1189	RS1/16S181J		
CAPACITORS			
C 1001	CKSRYB102K50	S 1110	Push Switch
C 1002	CSZS100M6R3	S 1111	Push Switch
C 1005	CKSRYB104K16	S 1112	Push Switch
C 1020	CSZS100M6R3	S 1113	Push Switch
C 1050	CKSRYB104K16	S 1114	Push Switch
C 1052	CKSRYB105K6R3	S 1115	Push Switch
C 1053	CKSRYB105K6R3	S 1116	Push Switch
C 1054	CKSRYB105K6R3	S 1117	Push Switch
C 1056	CKSRYB105K6R3	S 1118	Push Switch
C 1057	CKSRYB105K6R3	S 1119	Push Switch

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
S 1120 Push Switch	CSG1127	R 1172	RS1/16S622J
S 1121 Push Switch	CSG1127	R 1173	RS1/16S223J
S 1122 Push Switch	CSG1127	R 1175	RS1/16S472J
VR 1050 Semi-fixed 330kΩ(B)	CCP1457	R 1176	RS1/16S821J
		R 1177	RS1/16S122J
RESISTORS		R 1178	RS1/16S182J
R 1000	RS1/16S473J	R 1179	RS1/16S302J
R 1002	RS1/16S102J	R 1180	RS1/16S622J
R 1003	RS1/16S102J	R 1181	RS1/16S223J
R 1004	RAB4C102J	R 1182	RS1/16S181J
R 1005	RS1/16S102J		
		R 1183	RS1/16S181J
R 1006	RS1/16S474J	R 1184	RS1/16S181J
R 1007	RS1/16S102J	R 1185	RS1/16S181J
R 1008	RS1/16S103J	R 1186	RS1/16S181J
R 1009	RS1/16S102J	R 1187	RS1/16S181J
R 1010	RS1/16S224J		
		R 1188	RS1/16S181J
R 1011	RS1/16S102J	R 1189	RS1/16S181J
R 1012	RS1/16S473J	CAPACITORS	
R 1013	RS1/16S473J	C 1001	CKSRYB102K50
R 1014	RS1/16S102J	C 1002	CSZS100M6R3
R 1019	RS1/16S0R0J	C 1005	CKSRYB104K16
		C 1020	CSZS100M6R3
R 1020	RS1/16S101J	C 1050	CKSRYB104K16
R 1021	RS1/16S103J		
R 1050	RS1/16S564J	C 1052	CKSRYB105K6R3
R 1051	RS1/16S684J	C 1053	CKSRYB105K6R3
R 1052	RS1/16S393J	C 1054	CKSRYB105K6R3
		C 1056	CKSRYB105K6R3
R 1056	RAB4C102J	C 1057	CKSRYB105K6R3
R 1058	RAB4C102J		
R 1060	RS1/16S102J	C 1058	CKSRYB105K6R3
R 1061	RS1/16S102J	C 1059	CKSRYB105K6R3
R 1062	RS1/16S102J	C 1060	CKSRYB105K6R3
		C 1061	CKSRYB105K6R3
R 1063	RS1/16S102J	C 1062	CKSRYB102K50
R 1111	RS1/16S101J		
R 1112	RS1/16S101J	C 1111	CKSRYB104K16
R 1113	RS1/16S181J	C 1112	CKSRYB104K16
R 1114	RS1/16S181J	C 1113	CKSRYB104K16
		C 1114	CKSRYB104K16
R 1115	RS1/16S181J	C 1117	CKSRYB103K50
R 1116	RS1/16S181J		
R 1117	RS1/16S181J	C 1119	CKSRYB103K50
R 1118	RS1/16S181J	C 1120	CKSRYB103K50
R 1119	RS1/16S181J	C 1121	CKSRYB103K50
R 1124	RS1/16S560J		
R 1125	RS1/16S560J		
R 1126	RS1/16S181J		
R 1127	RS1/16S181J		
R 1128	RS1/16S181J		
R 1129	RS1/16S181J		
R 1130	RS1/16S181J		
R 1131	RS1/16S181J		
R 1132	RS1/16S181J		
R 1152	RS1/16S472J		
R 1153	RS1/16S821J		
R 1154	RS1/16S122J		
R 1155	RS1/16S182J		
R 1156	RS1/16S302J		
R 1160	RS1/16S472J		
R 1161	RS1/16S821J		
R 1162	RS1/16S122J		
R 1163	RS1/16S182J		
R 1164	RS1/16S302J		
R 1165	RS1/16S622J		
R 1167	RS1/16S472J		
R 1168	RS1/16S821J		
R 1169	RS1/16S122J		
R 1170	RS1/16S182J		
R 1171	RS1/16S302J		